

A new Agaronia (Mollusca: Olividae) from Indonesia

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Some years ago I received an Indonesian Agaronia species I could not identify. Subsequent literature research yielded no information on the identity of this species. Later on I obtained additional specimens which showed very constant characters. As continuous research in collections and literature-sources added little information, I decided to describe it as new:

Agaronia (Agaronia) johnkochi spec. nov.

Pl. 4, Fig. 1-2

Type material.

Holotype RNHL No. 56401

Type locality: Indonesia, Java, Cilacap

Paratypes 1 & 2 Indonesia, Java, Cilacap. Coll. RV No. 2327; *Paratype 3* Indonesia, south of West Java, from fisherman. Sept. 1986 Coll. RV No. 578; *Paratype 4* Indonesia. Coll. RV No. 579; *Paratype 5* Indonesia, West Java, Pangandaran. Coll. RV No. 577; *Paratypes 6 & 7* Indonesia, West Java. At low tide in sand. Coll. PR No. 43; *paratype 8* Indonesia, West Java, Pangandaran. Coll. PP; *paratype 9* Indonesia, West Java, Pangandaran Coll. PR

Description: Shell relatively large, strong and elongated. About 5 whorls, body whorl about 9/10 of total length of shell. Columella callus strongly developed, clearly visible from the base of the shell to the upper part of the aperture where it is connected to a band of callus which runs just above the suture. Columella with 6 or 7 strong plications. Callus above suture chocolate brown and covering more than half of the spire-whorls. Under magnification a fine pattern of longitudinal growth-striae can be seen.

Color light brown, fasciolar band slightly lighter, basal zone darker. A dirty white band just above the fasciolar band. Dark brown callus above suture conspicuous. Aperture white, extreme inner lip dark brown.

Etymology: Named in honour of the late John Leonard Koch, a fine person and friend of mine who died much too young, and with whom I originally planned to publish this new species. Unfortunately he was not able anymore to comment on the manuscript after I send it to him.

Remarks: Originally to be named *brunneocallosa*, a manuscript name known by some people. Only three other species of *Agaronia* were previously reported from Indonesia: *Agaronia* (*Anazola*) *gibbosa* (Born, 1778) (Pl. 4, Fig. 3), *Agaronia* (*Anazola*) *lutaria* (Röding, 1798) (Pl. 4, Fig. 4) and *Agaronia* (*Anazola*) *nebulosa* (Lamarck, 1811) (Pl. 4, Fig. 5). None of these is very close to *A. johnkochi*. All Indonesian *Agaronia* species are illustrated on the photo-plate for comparison. In my opinion, *johnkochi* is quite close to the Eastern Pacific *Agaronia* (*Agaronia*) *propatula* (Conrad, 1849).

No information other than "At low tide in sand" on habitat and the living animal is available to us now but as other *Agaronia* species live in relatively shallow water on sand and muddy sand it seems save to assume that *A. johnkochi* also lives in this type of habitat.

Unfortunately no data about the living animal and its radula are available because only empty shells were obtained.

Measurements of type material

| | Length | Width | Length of Aperture | L./W. | L./Apert. |
|------------|----------|----------|--------------------|-------|-----------|
| Holotype | 30 mm. | 11.5 mm. | 24.5 mm. | 2.61 | 1.22 |
| Paratype 1 | 31 mm. | 11 mm. | 24 mm. | 2.82 | 1.29 |
| Paratype 2 | 31 mm. | 11 mm. | 23.5 mm. | 2.82 | 1.32 |
| Paratype 3 | 36.5 mm. | 14.5 mm. | 30.5 mm. | 2.52 | 1.20 |
| Paratype 4 | 37 mm. | 15.5 mm. | 30.5 mm. | 2.39 | 1.21 |
| Paratype 5 | - | 14 mm. | 28.5 mm. | ? | ? |
| Paratype 6 | 41 mm. | 16.5 mm. | 34 mm. | 2.48 | 1.20 |
| Paratype 7 | 39 mm. | 15.5 mm. | 32 mm. | 2.51 | 1.22 |
| Paratype 8 | 51 mm. | 22 mm. | 43.5 mm. | 2.32 | 1.17 |
| Paratype 9 | 39.5 mm. | 16 mm. | 33 mm. | 2.47 | 1.20 |
| Mean: | | | | 2.55 | 1.22 |

Note: no length of paratype No. 5 can be given because early whorls are missing!

Abbreviations:

RV = R. Voskuil, Delft, Netherlands
 PR = P. Recourt, Egmond aan Zee, Netherlands
 PP = P. v. Pel, Egmond aan Zee, Netherlands
 RMNH = Rijksmuseum van Natuurlijke Historie, Leiden, Netherlands

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Samenvatting: Enige jaren geleden ontving de auteur een Agaronia-soort van Java, Indonesië. Omdat er geen gegevens gevonden werden in de tot de beschikking staande literatuur en ook andere exemplaren zonder bevredigende naam gevonden werden, werd besloten de soort in deze publicatie als nieuw te beschrijven. De nieuwe soort wordt vergeleken met de drie andere uit Indonesië bekende Agaronia-soorten.

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VERKLARING:

PLATE 4

- | | |
|---|------------|
| 1. <u>Agaronia johnkochi</u> spec. nov. Indonesia, Java, Cilacap. Coll. RNHL No. 56401 | HOLOTYPE |
| 2. <u>Agaronia johnkochi</u> spec. nov. Indonesia, south of West Java. Coll. RV No. 578 | PARATYPE 3 |
| 3. <u>Agaronia (s.s.) gibbosa</u> (Born, 1778) Indonesia, Bali. Coll. RV No. 669 | |
| 4. <u>Agaronia (Anazola) lutaria</u> (Röding, 1798) Indonesia, south of West Java. Coll. RV No. 611 | |
| 5. <u>Agaronia (Anazola) nebulosa</u> ((Lamarck, 1811) Indonesia, Rombut Island. Coll. RV No. 620 | |

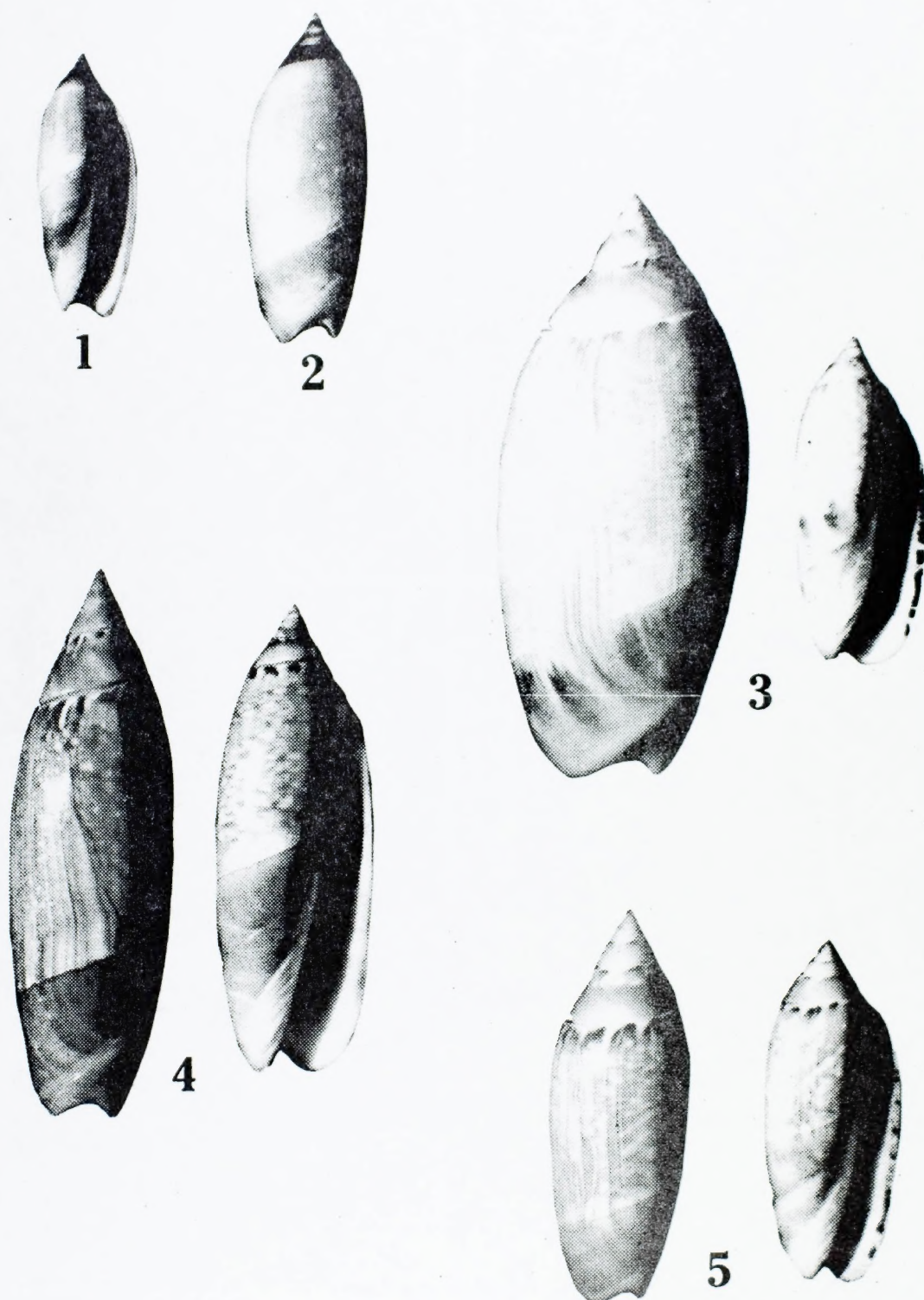


PLATE 4